

A Small Protein That Interacts With A Ribonucleotide
Reductase Subunit and Uses Thereof

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Abstract of the Disclosure

The present invention provides for an isolated Sml1 protein
or a homologue thereof. The present invention also provides
10 for a screening assay for identifying compounds that are
capable of reducing the division rate of a cell by altering
an interaction between a ribonucleotide reductase and a Sml1
protein in the cell, which comprises: (a) contacting the
cell with a compound, (b) comparing the division rate of the
15 cell in step (a) with the division rate of the cell in the
absence of the compound so as to determine whether the
compound alters the interaction between the ribonucleotide
reductase and the Sml1 protein of the cell, thereby reducing
the cell division rate of the cell.

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